Substi		Form 1449A/P many sheets as nece			Attorney Docket No.: 004085.P030X	Application Numl Not yet assigne	
					First Named Inventor: Christopher H. Bajorek		
					Filing Date: Herewith		
				U.S. PATEN	T DOCUMENTS	<u> </u>	
Exam. Initial*	Cite No.1	U.S. Paten	t Document		me of Patentee or Applicant	Date of Publication	Pages,
	No.	Number Code ²	Kind (If known)		of Cited Document	of Cited Document MM-DD-YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MD		4,770,739			Orvek et al.	9/13/88	
		4,931,351			McColgin et al.	6/5/90	
		5,018,037			Krounbi et al.	5/21/91	
	! 	5,045,150			Cleeves et al.	9/3/91	
		5,045,165			Yamashita	9/3/91	
		5,091,047			Cleeves et al.	2/25/92	
		5,219,788			Abernathey et al.	6/15/93	
		5,259,926			Kuwabara et al.	11/9/93	
		5,290,397			Ober et al.	3/1/94	
V		5,318,877			Ober et al.	6/7/94	
MD		5,320,934			Misium et al.	6/14/94	

Exam. Cit		reign Patent D	Ocument	Name of Patentee or Applicant	Date of	Pages,	٦
Initial* No	Office ³	Number4	Kind (If known)	of Cited Document	Publication of Cited Document MM-DD- YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

Examiner	/Motthern Dominials/	Date Considered	
C:	/Matthew Daniels/	Dute Communica	06/14/2006
Signature			00/14/2000

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substit	ubstitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)				Attorney Docket No.: 004085.P030X	Application Numb	
					First Named Inventor: Christopher H. Bajorek		
					Filing Date: Herewith	0.8	
	 _		U.	S. PATEN	T DOCUMENTS		
Exam. Initial*	Cite No. ¹	U.S. Patent D Number	Nind Code ² (If known)	Na	me of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MD		5,455,145			Tarumoto	10/3/95	
		5,985,524			Allen et al.	11/16/99	
		6,019,930			Baresich	2/1/00	
		6,086,730			Liu et al.	7/11/00	
		6,210,855			Ueda et al.	4/3/01	
		6,218,056			Pinarbasi et al.	4/17/01	
		6,276,656			Baresich	8/21/01	
		6,383,944			Furihata et al.	5/7/02	
		6,440,646			Ueda et al.	8/27/02	
		6,518,189			Chou	2/11/03	<u></u>
V		20030071016			Shih et al.	4/17/03	
MD		20020025408			Davis	2/28/02	

					FO	REIGN PATENT DOCUMENTS			
Exam. Initial*	Cite No. ¹	Fore Office ³ Code ³	eign Patent D Number	Kind (If kno	wn)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner	/Matthew Daniels/	Date Considered	06/14/2006
Signature			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁴Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

	aminer Cite Include name of the author (in CAPITA of the item (book, magazine, journal, so issue number(s), published Brian Faircloth et al. "Bilayer, nanoim	Attorney Docket No 004085.P030X	o.:	Application Not yet assig		
	_		First Named Invento Christopher H. Bajo			
			Filing Date: Herew			
	· · · · · ·	OTHER ART - NO PATENT	LITERATURE DOC	UMENTS		
Examiner Initials*	1	Include name of the author (in CAPITAL LI of the item (book, magazine, journal, seria issue number(s), publisher, o	l, symposium, catalog, e	tc.), date, page		Translation ²
MD		Brian Faircloth et al. "Bilayer, nanoimpr Jul/Aug 2000, 2000 American Vacuum S		c. Sci. Techno	l. B 18(4),	
	1					
"						
Examiner Signature	/Ma	tthew Daniels/		Date Considered	06/14/	2006

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

				FO	REIGN PATENT DOCUMENTS			
Exam. Initial*	Cite No.1	Offices Codes		ment Cind (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
MD		PCT	WO 00/48172		General Electric Company	8/17/00	<u> </u>	

Treves et al.

7/16/96

Examiner	/Matthew Daniels/	Date Considered	06/14/2006
Signature	/ IIII		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MD

5,537,282

^{&#}x27;Unique citation designation number. 'See attached Kinds of U.S. Patent Documents. 'Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Substi		Form 1449A/PTO (Modified) nany sheets as necessary)	Attorney Do 004085.P03		Application Numb	
		OT 0 8 2003 2	First Named Christophe Bajorek			
		TRADENARY OF	Filing Date:	Herewith		
			S. PATENT DOCUMEN	ГS		
Exam.	Cite	U.S. Patent Document	Name of Patentee or		Date of Publication	Pages,

Exam.	Cite	U.S. Paten	t Document	Name of Patentee or Applicant	Date of Publication	Pages,
Initial*	No.1	Number	Kind Code ² (If known)	of Cited Document	of Cited Document MM-DD-YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MD		2003/003432	9	Chou	2/20/03	
MD		2002/004202	7	Chou et al.	4/11/02	
MD		2002/007121	4	Karl A. Belser	6/13/02	
MD		2002/013248	2	Chou	9/19/02	
MD		2002/013593	9	Yoshimitus Wada	9/26/02	
MD		2002/013692	7	Hiroyuki Hieda, et al.	9/26/02	
MD		2002/016711	7	Chou	11/14/02	

				FOI	EIGN PATENT DOCUMENTS			
Exam. Initial*	Cite No. ¹	For Office ³ Code ⁵	eign Patent D Number ⁴	Kind (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

Examiner Signature	/Matthew Daniels/	Date Considered	06/14/2006

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute	for Form 1449	/PTO			Complete i	if Known
	_INFOR	ΜΔ	TION DISCLOSUR	F	Application Number	10/659,006
011	78/			Filing Date	9/9/03	
	18		ENT BY APPLICAN' s many sheets as necessary)	First Named Inventor:	Christopher H. Bajorek et al.	
JAN I	رير 2006 ع				Art Unit	2652
PARENT	<i>&</i> /				Examiner Name	Not yet assigned
Sheet PADE	MARK		of	Attorney Docket Number	004085.P030X	
			U.S. PATEN	T DOCUMENTS		
Examiner Initials*	Cite No.1	Num	Document Number ber-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MD		US-	4,571,320	2/86	Walker	
		US-	5,295,802	3/94	Hersbt	
		US-	6,281,679	8/01	King et al.	
		US-	6,705,853	3/04	Nehring	
,		US-	6,939,120	9/05	Harper	
		US-	5,413,018	5/9/95	Wada	
7/		US-	5,427,599	6/27/95	Greschner et al.	
V		US-	5,493,959	2/27/96	Yagi et al.	
MD		US-	6,242,718	6/5/01	Ferro et al.	
		US-				
		us.				

Examiner Initials*	Cite No.¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ³ (if trown)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
MD		JP01256036A	10/12/89	Toshiba Corp.		

Examiner	/Matthew Daniels/	Date Considered	06/14/2006
Signature			06/14/2006

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the Indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

JAN 1 9 2006

	-3/								
Substituted	of Form 1	449/PTO			Сотр	lete if Known			
PARTY ()RMA	TION	DISC	LOSURE	Application Number	10/659,006			
					Filing Date	9/9/03			
STA				PLICANT	First Named Inventor:	Christopher H. Bajorek et al.			
	(use as i	many shee	its as neces	ssary)	Art Unit	2652			
			•		Examiner Name	Not yet assigned			
Sheet 2 of 2 Attorney Docket Number 004085.P030X									
				NON PATENT LIT	TERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹			magazine, journal, se	TAL LETTERS), title of the article erial, symposium, catalog, etc.), delisher, city and/or country where p	ate, page(s), volume-issue	T ²		
MD		Patent	Patent Abstracts of Japan, Publication No. 01-256036, publication date 10/12/89.						
МО			H. Schulz et al., "New polymer materials for nanoimprinting", J. Vac. Sci. Technol. B 18(4), July/August 2000, pp. 1861-1865.						
MD			arey and o _x Ni _{1-x} O.	A.E. Berkowitz, "Ex	xchange anisotropy in coupled	I films of Ni ₈₁ Fe ₁₉ with NiO			
						·			

F .			
Examiner		Date	06/14/2006
C:	/Matthew Daniels/	C	06/14/2006
Signature	/Macchew Danielb/	Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VIZ 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VIZ glinla 22313-1450.

Substi		or Form 1449A/PTO (Mo s many sheets as necessary)	dified)	Attorney Docket No.: 4085.P030X	Application Number: 10/659,006		
OIPF	40,			First Named Inventor: Christopher H. Bajorek			
DEC 0 1				Filing Date: 9/9/03			
ا م	CMA	*	U.S	S. PATENT DOCUMENTS	•		
Exam. Initial*	n. Cite U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
MD		2002/0177319		Chou	11/28/02		
MD		2003/0080471		Chou	5/1/03		
MD		2003/0080472		Chou	5/1/03		
MD		2003/0170995		Chou	9/11/03		
MD		2003/0170996		Chou	9/11/03		

Exam. Cite	For	eign Patent D	ocument	Name of Patentee or Applicant	Date of	Pages,	T6	
Initial*	No.¹	Office ³ Code ⁵	Number ⁴	Kind (If known)	of Cited Document	Publication of Cited Document MM-DD- YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

Examiner Signature	/Matthew Daniels/	Date Considered	06/14/2006

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

-	Orap p	pr Form 1449A/PTO (Moo	lified)		Attorney Docket No.: 4085.P030X First Named Inventor:	Application Num 10/659,006	ber:
DEC 1 1 2003					Christopher H. Bajorek		
(Ex	TRABI	Mustre			Filing Date: 9/9/03		
			U.	S. PATENI	DOCUMENTS		
Exam. Initial*	Cite No. ¹	Number Kind C	U.S. Patent Document		me of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MD		5,259,926			Kuwabara et al.	11/9/93	
MD		5,512,131			Kumar et al.	4/30/96	
M		5,537,282			Treves et al.	7/16/96	

Exam. Cite Foreign Patent Document	ocument	Name of Patentee or Applicant	Date of	Pages,	Τé			
Initial*	No.¹	Office ³ Code ⁵	Number ⁴	Kind (If known)	of Cited Document	Publication of Cited Document MM-DD- YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

Examiner /Matthew Daniels/	Date Considered	06/14/2006
----------------------------	-----------------	------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁴Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵Applicant is to place a check mark here if English language Translation is attached.